

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P744819

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D25D010-EU4DR1515309027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2014.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



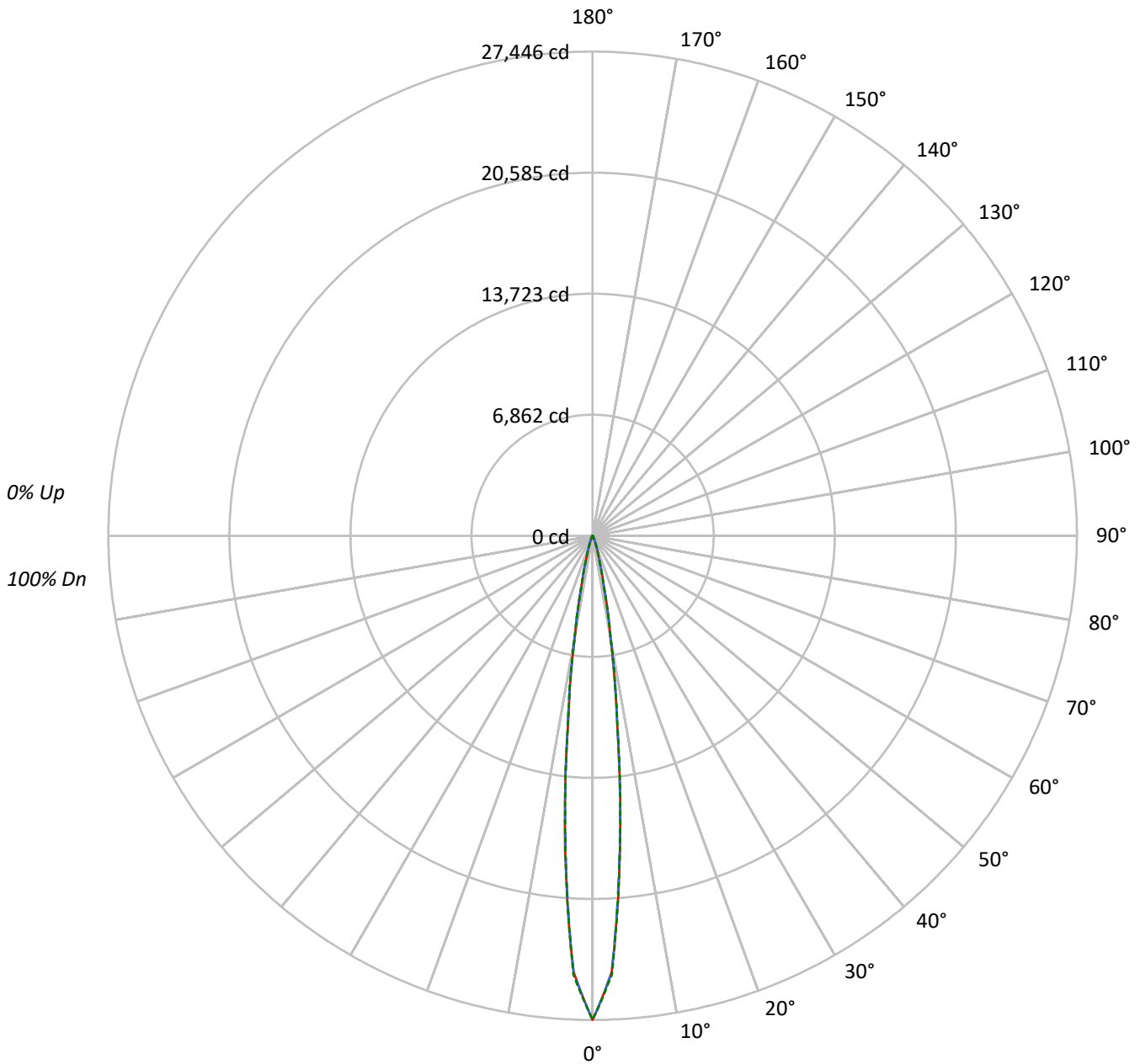
Downlight



TEST NUMBER: P744819

CATALOG NUMBER: LD4D25D010-EU4DR1515309027-4LBSQW1B

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3088223	3088223	3088223
5°	1814787	1791291	1805458
10°	541632	545420	553771
15°	134724	137347	133108
20°	40306	46680	41165
25°	14209	18104	14388
30°	5219	6874	5309
35°	2614	2956	2534
40°	1648	1818	1648
45°	1218	1302	1218
50°	967	967	967
55°	807	807	807
60°	653	653	653
65°	500	500	500
70°	424	424	424
75°	265	265	348
80°	181	181	181
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1302 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1306.5	64.9
10°-20°	537.4	26.7
20°-30°	106.7	5.3
30°-40°	26.6	1.3
40°-50°	14.0	0.7
50°-60°	10.4	0.5
60°-70°	7.3	0.4
70°-80°	4.2	0.2
80°-90°	1.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1950.6	96.8
0°-40°	1977.3	98.2
0°-60°	2001.6	99.4
0°-90°	2014.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27446	27446	27446	27446	27446	
5°	17857	17673	17626	17748	17765	1304
15°	1551	1580	1581	1553	1532	532
25°	182	207	232	206	185	96
35°	36	38	41	38	35	24
45°	17	17	19	17	17	14
55°	12	12	12	12	12	10
65°	7	7	7	7	7	7
75°	4	4	4	4	5	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27446.0	27446.0	27446.0	27446.0	27446.0
2.5°	24757.4	24778.3	24786.5	24810.9	24901.5
5°	17857.0	17673.4	17625.8	17747.8	17765.2
7.5°	10577.8	10615.0	10750.9	10781.1	10671.9
10°	5804.8	5852.4	5845.4	5887.3	5934.9
12.5°	2968.6	2931.4	2919.8	2967.5	2901.2
15°	1551.1	1580.2	1581.3	1553.4	1532.5
17.5°	834.2	867.9	923.7	878.4	808.7
20°	492.6	522.8	570.5	533.3	503.1
22.5°	304.4	328.8	362.5	333.5	309.1
25°	182.4	206.8	232.4	205.7	184.7
27.5°	108.1	129.0	145.2	127.8	106.9
30°	69.7	81.3	91.8	80.2	70.9
32.5°	48.8	53.4	58.1	53.4	48.8
35°	36.0	38.3	40.7	38.3	34.9
37.5°	27.9	30.2	31.4	29.0	26.7
40°	23.2	24.4	25.6	24.4	23.2
42.5°	19.8	20.9	20.9	20.9	19.8
45°	17.4	17.4	18.6	17.4	17.4
47.5°	15.1	15.1	16.3	15.1	15.1
50°	13.9	13.9	13.9	13.9	13.9
52.5°	12.8	12.8	12.8	12.8	12.8
55°	11.6	11.6	11.6	11.6	11.6
57.5°	10.5	10.5	10.5	10.5	10.5
60°	9.3	9.3	9.3	9.3	9.3
62.5°	8.1	8.1	8.1	8.1	8.1
65°	7.0	7.0	7.0	7.0	7.0
67.5°	7.0	7.0	7.0	7.0	7.0
70°	5.8	5.8	5.8	5.8	5.8
72.5°	4.6	4.6	4.6	4.6	4.6
75°	3.5	3.5	3.5	3.5	4.6
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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